

HISTORY OF OIL OR GAS WELL

USG Section 19 Well No. 17 was spudded on September 20, 1957, and on September 21, 1957, 13-3/8" casing was set at 251 feet with 125 sacks of 8% gel and followed by 125 sacks of cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 500 pounds pressure for thirty minutes, which held with no drop in pressure.

9-5/8" casing was set at 2157' with 500 sacks 4% gel cement and followed by 125 sacks neat cement. After waiting on cement for thirty-six hours, casing and water shut-off were tested with 1000 pounds pressure for thirty minutes which held with no drop in pressure.

7" casing was landed at 5613' and cemented with 400 sacks 6% gel cement and followed by 75 sacks neat cement. After waiting on cement for 72 hours, 7" casing was tested with 1100 pounds for thirty minutes, which held with no drop in pressure.

A 5" 15 pound liner was run with Baash-Ross pack-off type liner hanger and set at 5486-7035' with 210 sacks of cement. After waiting on cement, casing was tested with 1100 pounds pressure for thirty minutes, which held with no drop in pressure.

Perforated with four shots per foot 6530-6570 and 6643-6659. Spotted acid over perforations and set packer at 6490'. Acidized with 1500 gallons 15% regular acid. Breakdown pressure 1250 psi, treating pressure 1500 psi, injection rate 2 barrels per minute. Tested 6450 MCFPD, 32 BOPH, 17 BWPH. Set packer at 6459' and squeezed both sets perforations with 150 sacks cement. Re-squeezed with 150 sacks cement to 4400 psi. Drilled solid cement to 6663 and cleaned out to plug back depth 6700'. Re-Perforated with four shots per foot 6643-6659'. Spotted acid and set packer at 6612. Acidized with 500 gallons 15% acid. Breakdown pressure 2900 psi, treating pressure 1600 psi, injection rate two barrels per minute. Tested 2620 MCFPD, 60 BARRELS oil per hour, no water. Re-perforated with 4 shots per foot 6530-6570. Set retrievable bridge plug 6620'. Spotted acid and set packer at 6472'. Acidized with 1000 gallons 15% acid. Breakdown pressure 1700 psi, treating pressure 1900 psi, injection rate 3-1/2 barrels per minute. Tested 5100 MCFPD, 25 barrels oil per hour, 3-1/2 barrels water per hour. Set magnesium bridge plug 6620 and packer at 6510 and squeezed zone with 200 sacks cement to 4500 psi. Drilled solid cement 6517-6610. Re-perforated with two shots per foot 6530-6570. Spotted acid and set packer at 6506'. Acidized with 500 gallons 15% regular. Breakdown pressure 3000 psi, treating pressure 1700 psi, injection rate two barrels per minute. Tested 2910 MCFPD, 1-1/2 barrels oil per hour, 1/3 barrels water per hour. Perforated four shots per foot 6396-6426'. Set retrievable bridge plug 6470'. Spotted acid and set packer 6374'. Acidized with 1000 gallons 15% regular. Breakdown pressure 2000 psi, treating pressure 1600 psi, injection rate 2-1/3 barrels per minute. Tested 8050 MCFPD, 4-1/3 barrels oil per hour, 1 barrel water per hour. Drilled cement and magnesium bridge plug and cleaned out to plug back depth. Set Baker Model D production packer at 6619' with 2-3/8" tubing landed at 6619' and side door choke nipple above packer. Installed side door choke and flowed thru tubing to test zone 6643-6659. Tested 757 MCFPD, 14 barrels oil per hour, 2 barrels water per hour. Closed casing pressure steady at 2400 psi indicating packer holding. Acidized zone with 500 gallons 15% regular and tested 2980 MCFPD, 69 barrels oil per hour, no water. Closed casing pressure steady at 2400 showing effective separation of upper zones from lower. Connected well to pipeline to test upper zones 6396-6426 and 6530-6570. Tested well into pipeline 3400 MCFPD, 98 barrels oil per day, 50 barrels water per day and completed as condensate-producing gas well January 30, 1958. Blanked off lower oil-bearing zone 6643-6659 and equipped well to produce upper perforations 6396-6426 and 6530-6570 thru tubing string to supply helium bearing gas to U. S. Bureau of Mines Helium Plant.